

**Amendments to the Specification:**

Please amend the specification as follows:

Please replace paragraph on page 7 starting with “In order to...” with the following rewritten paragraph:

In order to investigate the role of the mammalian *Msh2* gene in DNA mismatch repair and to address the role of mismatch repair in maintaining genome stability, we generated an ES cell line carrying a disruption in both copies of the mouse *MSH2* gene. This line is ~~designated~~ designated dMsh2-9 (ATCC deposit number RH532). Its construction is described in the accompanying manuscript: “Inactivation of the mouse *Msh2* gene results in mismatch repair deficiency, methylation tolerance, hyperrecombination, and predisposition to cancer,” by Niels de Wind, Marleen Dekker, Anton Berns, Miroslav Radman, and Hein te Riele, to be published in *Cell*, the 28<sup>th</sup> July, 1995 on pages 6, 14, 27 (legend to Fig. 1) and 30 (Fig. 1).